

SYSTEM AND METHOD FOR PROVIDING INTELLIGENT ASSET MANAGEMENT AND TRACKING CAPABILITIES

Abstract of the Disclosure

A comprehensive method and system is provided for managing bulk and non-bulk material and assets using radio frequency and other asset identification devices, distributed mobile computing systems, centralized data storage environments, and client-server based computing. In particular, a process has been designed and to manage shipment items from businesses and third parties to customer designated locations. Components of this system include electronic asset identification devices, a central data repository, a mobile computing environment and associated software applications supporting a client-server system or n-tiered computer system. The mobile computing environment includes software which enables users to physically locate assets, view asset information, and modify such information to reflect current asset status. This information may then be exchanged and synchronized across the n-tiered computer system. Additionally, various personnel associated with the shipping arrangement may have access to the available information over a computer network such as the Internet. In this manner, such personnel can easily determine the status of various shipments and also promptly act on information collected during any status updates, thereby expediting the resolution of any potential exceptions which may arise. The electronic asset identification devices may be further configured to include various types of sensors, The devices may then operate to process and store sensor output information for subsequent relay to users via the mobile computing environment or other means.

Figures